

STANEK, JAROSLAV

Ethyl α -benzylacetacetate. Jaroslav Stanek and Miroslav Hromáček. České Univ. v Brně, Československá chem. listy, 47, 401-8 (1953).—The preparation of $\text{PhCH}_2\text{CHCOCH}_2\text{CO}_2\text{Et}$ (I) and its reactions are described. $\text{PhCH}_2\text{CHCOCH}_2\text{CO}_2\text{Et}$ (I) and 30 g. $\text{AcCH}_2\text{CO}_2\text{Et}$ heated with 450 ml. 6% alc. NaOH yielded 116 g. (73%) $\text{PhCH}_2\text{CHCOCH}_2\text{AcCO}_2\text{Et}$ (II), m. 11°. II (10 g.) heated with 40 ml. 75% AcOH 3 hrs. on the steam bath gave 3.5 g. (41%) I, m. 42° (from EtOH). A better yield (69%) of I, m. 42.5°, was obtained by alk. cleavage by shaking 50 g. II 10 min. with 150 ml. 8% NaOH . I (1 g.) boiled briefly with 0.32 g. BiNOHHCl in 10 ml. H_2O , gave 2-styryl-2*i*-oxazolin-5-one, m. 163° (from EtOH). Heating 1 g. I 30 min. on the steam bath with 0.5 g. PhNH_2H_2 gave 0.6 g. 1-phenyl-2-styryl-2-pyrazolin-5-one, m. 150° (from EtOH). I (0.5 g.) boiled 10 min. with 50 ml. 1% MeOH soln. of 2,4-($\text{O}_2\text{N}\text{C}_6\text{H}_4\text{NO}_2$)-2*i* $\text{CH}_2\text{CO}_2\text{Et}$, m. 132° (from EtOH), and 1-(2,4-dinitrophenyl-3-styryl-2-pyrazolin-5-one, m. 171° (from EtOH). The Na salt of I, prep'd. from 5 g. I and 0.52 g. Na in 50 ml. Et_2O with 2.8 g. Iodine in 30 ml. Et_2O gave $[\text{PhCH}_2\text{CHCOCH}(\text{CO}_2\text{Et})_2]$, m. 154° (from MeOH). I (2 g.) heated gently with 0.4 g. 40% aq. CH_2O or with 0.15 g. $(\text{CH}_2\text{O})_2$ in the presence of 3 drops $\text{Cu}_{\text{II}}\text{N}$ gave $[\text{PhCH}_2\text{CHCOCH}(\text{CO}_2\text{Et})_2]$, m. 118°. Treatment of 10 g. I in 100 ml. Et_2O 5 hrs. with NH_3 in the presence of 10 g. NaNO_2 (or treatment of I with PhNH_2 or $\text{Cu}_{\text{II}}\text{N}$) gave a compd. m. 137°, probably $\text{PhCH}_2\text{CHCO}_2\text{Et}$ ($\text{CH}_2\text{CO}_2\text{Et}[\text{PhCH}_2\text{CHCO}_2\text{Et}]$) (III), which, boiled 3 hrs. with equal amt. of BiNOHHCl in EtOH yielded 2-carbethoxymethyl-4-phenyl-5-carbethoxy-5-*sub*barbore, m. 148° (from CHCl_3 and EtOH) (0.7 g. from 2 g. III).

M. Hudlický

STANĚK, J.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Organic Chemistry

2,4-Dithio-5,5-diphenylhydantoin. J. Staněk and J. Štěllo
(Charles Univ., Prague, Czech.). *Chem. Listy* 47, 470
(1953).—Refluxing 24 g. 5,5-diphenylhydantoin with 60 g.
P₂S₉ in 400 ml. tetralin 2 hrs. gave 18 g. 2,4-dithio-5,5-di-
phenylhydantoin (I), m. 246° (from EtOH). No desulfura-
tion of I was observed by the action of Raney Ni.
M. Hudlický

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Organic Chemistry

4,6-Dioxohexahdropyrimidine. J. Staněk and J. Šíklo
(Charles Univ., Prague, Czech.). *Chemistry* 47, 471
(1953). 4,6-Dioxohexahdropyrimidine (yield 12%), m.
148° and 1,3-diphenyl-4,6-dioxohexahdropyrimidine (yield
25%), m. 178°, were prep'd. by refluxing, in EtOH with
Raney Ni, thiobarbituric acid and 1,3-diphenylthiobarbi-
turic acid, resp. M. Hudlický

Reactivity of the methyl group on the heterocyclic nucleus. IV. J. Stanek and V. Zvëřina (Charles Univ., Prague). *Chem. Listy* **47**, 471-2 (1953); cf. *C.A.* **47**, 123781. -2-Phenacyl-8-methylpyridine, m. 75-8° (from petr. ether) (cf. *C.A.* **47**, 9972a) was found to be unstable and was changed into its stable isomer form, m. 131° by recryst. from ether. Nicholas Feldman

NY B2

STANĚK, JAROSLAV

✓ **Phenyl glycosides of β -D-cellobiose.** Jaroslav Staněk and β -D-cellobioside (IV), m. 216°, $[\alpha]_D^{25} - 53.0^\circ$. Acetylation of IV gave 87.7% ρ -acetoxyphenyl heptaacetyl β -D-cellobioside, m. 220° (from EtOH-CHCl₃), $[\alpha]_D^{25} - 52.48^\circ$. I (10 g.) dissolved in 120 ml. C₆H₆, refluxed with 4 g. PhOH and 2 g. Hg(OAc)₂ 1 hr., the mixt. filtered, evapd., heated 2 hrs. *in vacuo* at 60°, and dild. with 120 ml. boiling EtOII, yielded 3.5 g. after crystn. 1.4 g. Ph heptaacetyl- α -D-cellobioside (V), m. 221° (from EtOH-CHCl₃), $[\alpha]_D^{25} 75.0^\circ$. The same expt. carried out in the presence of 6 g. Al gave 4.5 g. V, m. 225° (after recrystn.), $[\alpha]_D^{25} 78.7^\circ$. The usual sapon. of V with MeONa gave 59.8% Ph α -D-cellobioside, m. 252-4°, $[\alpha]_D^{25} 122.01^\circ$. I (20 g.) and 8 g. PhOH dissolved in 100 ml. Me₂CO refluxed 2 hrs. with 4.4 g. Hg(AcO)₂, cooled, filtered, evapd. to dryness *in vacuo* and the residue treated with 100 ml. Et₂O yielded 14 g. (10.4 g., 55% after recrystn.) of octaacetyl- β -D-cellobiose, m. 192-3°, $[\alpha]_D^{25} - 15.2^\circ$, also obtained in 82% yield ($[\alpha]_D^{25} - 11.58^\circ$) by treatment of I with AgOAc. M. Hudlický

STANEK, J., JAROLIM, V.

"Condensation of Succinic Acid Dinitrile with Alicyclic Ketones" p. 703,
(CHEMICKÉ LISTY, Vol. 47, no. 5, May 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

Reactivity of the methyl group on the heterocyclic ring
V. The base-catalyzed condensation of 2-picoline meth-
iodide with aromatic aldehydes. I. Stanek and Z. Veselá
(Charles Univ., Prague, Czech.). *Chem. Listy* 47, 746-51
(1953); cf. *C.A.* 47, 12378; 48, 3370. — Nitro- and halo-
benzaldehydes in the presence of C_6H_5N with 2-picoline
MeI form *methiodides* of 2-(2-aryl-2-hydracetyl)pyridines (I)
in the cold (Type 1 reaction), and *methiodides* of substituted
2-stilbaoles (II) at higher temp. (Type 2 reaction). Other
aromatic aldehydes react always according to the type 2
reaction. Type 1 (aryl group, % yield, m.p.): *o*- $O_2NC_6H_4$,
36, 140°; *m*- $O_2NC_6H_4$, 60, 137°; *p*- $O_2NC_6H_4$, 39, 133°;
m- ClC_6H_4 , 38, 148°; *p*- BrC_6H_4 , 35, 132°. Type 2 (aryl
group, % yield, m.p.): *o*- $O_2NC_6H_4$, 32, 235°; *m*- $O_2NC_6H_4$,
45, 238°; *p*- $O_2NC_6H_4$, 51, 241°; *m*- ClC_6H_4 , 60, 281°;
p- BrC_6H_4 , 72, 205°; *p*- $Me_2NC_6H_4$, 84, 268°; *o*- HOC_6H_4 , 45,
248°; *o*- $EtOC_6H_4$, 40, 239°; *furyl*, 57, 104°; *Ph*, 20, 180°.
M. Hudlický

J. P. J.

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STANEK, J.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Organic Chemistry

Reaction of silver salts of carboxylic acids with halogens
(the Hunsdiecker reaction). Jaroslav Stánek (Charles
Univ., Prague, Czech.). *Chem. Listy* 47, 1245-9 (1953). A
review with 65 references and tables of compounds.

J. M. Hudlicky

STANEK, J.; HAUZAR, I.

"Preparation of 6-Acetyl-1, 2-Isopropylidene- α -D Glucofuranose", P. 337
(CHEMICKE ZVESTI, Vol. 8, No. 6, June 1954, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions, (REAL), LC, Vol. 3, No. 12,
Dec. 1954, Unclassified.

CZECH

Preparation of 2-deoxy-D-glucose. Jaroslav Stanek and
Jindra Schwarz (Karlova Univ., Prague, Czechoslovakia).—Triacetyl-D-glucal (I) addis-
(BzO)₂Ag and (BzO)₂BrAg, to give 1-benzoyl-3,4,6-tri-
acetyl-2-deoxy-2-iodo-D-glucopyranose (II) and 1-benzoyl-
3,4,6-tri-acetyl-2-deoxy-2-bromo-D-glucopyranose (III), resp.
Both halogen derivs. give 2-deoxy-D-glucose (IV) by reduction.
Adding a C₆H₆ soln. of 16.7 g. iodine into a suspension of 23.6 g. dry BzOAg in 200 ml. C₆H₆, treating the mixt.
with a soln. of 20 g. I in 200 ml. C₆H₆, heating the mixt.
7 hrs. on the steam bath, removing the AgI, evapg. the solvent, and crystg. the residue from EtOH gave 20.8 g.
(54.7%) II, m. 120-30°, [α]_D 21.7°. Analogous procedure
with 13.4 g. BzOAg, 4.6 g. Br, and 3 g. I gave 3.9 g. (33%)
III, m. 139-40°, [α]_D 53.5°. The same compd. (3 g.), m.
110°, [α]_D 53.0°, was obtained by adding 3.2 g. Br to a
soln. of 5.44 g. I in 50 ml. C₆H₆, by refluxing the mixt. 2
hrs. with 6 g. BzOAg, filtering off the AgI, and evapg.
the solvent. Reducing 8 g. II or an equiv. III in 150 ml. MeOH with 69 g. Zn activated by 1 hr. immersion in a soln. of
60 g. CuSO₄ in 1500 ml. H₂O, removing Zn after 8 hrs.,
evapg. the MeOH, and suspending the residue with Ba(OH)₂
yielded 0.43 g. (20%) IV, m. 145°, [α]_D 40.1°. M. Hudlický

STANEK, Jaroslav

✓ The identity of bellamarine and acetylcaranine. Jaroslav
Stanek (Charles Univ., Prague). Chemistry & Industry
1955, 1957. The identity of bellamarine (I) was confirmed
as being acetylcaranine. Pure I from chromatography m.
185°. $[\alpha]_D^{25} -183.5$, and contains the OCH_2O group.
C. Robert Walter, Jr.

STANEK, J.; SCHWARZ, V.

Preparation of 2-desoxy-D-glucose. In German. p. 42

Vol. 20, no. 1, Feb. 1955
SBORNÍK ČESkosLOVATSKÍKH KHIMICHESKÍKH RABOT
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

Stanek, J.

✓ The anomeric configuration of hemiacetal groups in glycoalkaloids? J. Stanek (Charles Univ., Prague). *Chemistry & Industry*, 1966, 488-90. — The author has applied Klyne's rule for the calen. of the mol. rotation of glucosides contg. an optically active aglycon to the calcd. and found mol. rotations for a series of glycoalkaloids and observed that the agreement is generally good. Some of the hydrolysis products are not true aglycons and the calens. are of little value. The rule does not hold for some synthetic glycosides such as those of the morphine group. Anomalous rotations

may occur due to hydrolytic isomerizations. Tables showing the mol. rotations of some glycoalkaloids and some anomalies are listed.

Guilles Flower, Jr.

Chem

AM NK

STANK, JAROSLAV

Alkaloidy. Praha, Nakl. Ceskoslovenske akademie ved. 1957. 653 p. (Ceskoslovenska akademie ved. Sekce chemicka. Studie a prameny, sv. 25) (Alkaloids. 1st ed. bibl., footnotes, indexes)

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 1, Jan 1958

STANEK, J.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their
Applications. Pharmaceuticals. Vitamins. Antibiotics.

H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28581.

Author : Staneck, J.

Inst :

Title : On the Nomenclature Used for Organic Compounds in
the Czech Pharmacopoeia. Communication 2.

Orig Pub: Ceskoslov Farmac, 5, No 5, 270-272 (1957) (In Czech)

Abstract: No abstract.

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STANAK, J.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11246.

Author : Stanek, J. and Zemlicka, J.

Inst :
Title : Oxidation of Several α -Substituted Alchol Derivatives
by the Oppenauer Method.

Orig Pub: Chem Listy, 51, No 3, 493-496 (1957) (in Czech)

Abstract: A number of α -ketols and 1,2-glycols have been oxidized to the corresponding α -diketones by a modified Oppenauer procedure using Al-phenoxide (I) and p-benzoquinone (II) in anhydrous media (see M. Yamashita and T. Matsumura, J. Chem. Soc., Japan, 64, 506 (1943); R. L. McKee and H. R. Heuze, J. Amer. Chem. Soc., 66, 2021 (1944); P. Ruggli et al, Helv. Chim. Acta, 29, 312 (1946)). The esters of α -hydroxy acids and of α -amino alcohols

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5
CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11246.

do not react under the above conditions. Preparation: 0.1 mol of the substance to be oxidized is heated 4 hrs in 350 ml C_6H_6 with 0.05 mol I and 0.1-0.15 mol II (per hydroxyl group to be oxidized); the solution is filtered and extracted four times with 200 ml 5% NaOH and water, the C_6H_6 is distilled off, and the residue is distilled or recrystallized. The substance to be oxidized, the oxidation product, and the yield of the latter in % are given below: hydrobenzoin, benzil, 74; iso-hydrobenzoin, benzil, 75; benzoin, benzil, 87; furoin, furil, 49; 1-phenyl-2-75; benzoin, benzil, 87; furoin, furil, 49; 1-phenyl-2-nitroethanol, resin, -; D-borneol, D-camphor, 76.5; benzyl alcohol, benzaldehyde, 31.1; cyclohexanol, cyclohexanone, 29.8 (the reaction is accompanied by the self-condensation of cyclohexanone to yield 2-cyclohexyl-cyclohexanone, bp 108-110°/3 mm, 12.4%). Acetone glycerine, 1,2- and

Card : 2/3

STANEK, J., AND OTHERS

"Reaction of 2, 3, 4, 6-tetraacetyl- β -D-glucopyranosyl bromide with mercaptans."

p.1556 (Chemicke Listy, Vol. 51, no. 8, Aug. 1957, Praha, Czechoslovakia.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No.6 June 1958.

STANĚK, JAROSLAV

Optical rotation of the isomeric trehaloses. Jaroslav
Staněk (Charles Univ., Prague). *Nature* 179, 97-8 (1967).

The hypothesis that the molar rotation of any glycoside
contg. an optically active aglycone is equal to the sum of the
mol. rotations of the corresponding methylglycoside and the
aglycone does not apply to the mol. rotations of disac-
charides. The calcd. values are: α -D-glucopyranosyl- α -D-
glucopyranose, α,α -trehalose, $[\text{M}]_D + 61.720^\circ$, $[\alpha]_D +$
 180.5° , octaacetate $[\text{M}]_D + 91.660^\circ$, $[\alpha]_D + 139.3^\circ$, α -
 α -glucopyranosyl- β -D-glucopyranose, α,β -trehalose (neo-
trehalose), $[\text{M}]_D + 24.220^\circ$, $[\alpha]_D + 70.8^\circ$, octaacetate
 $[\text{M}]_D + 40.690^\circ$, $[\alpha]_D + 59.9^\circ$, β -D-glucopyranosyl- β -D-
glucopyranose, β,β -trehalose (isotrehalose) $[\text{M}]_D - 13.280^\circ$,
 $[\alpha]_D - 38.5^\circ$, octaacetate $[\text{M}]_D - 18.180^\circ$, $[\alpha]_D - 19.4^\circ$.

F. J. Vara

CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and Synthetic Analogues. G

Abs Jour: Ref Zhur-Khimia, No 18. 1958, 61053.

Author : J. Stanek, K. Malkovsky, M. Novak, D. Petricek.
Inst : —

Title : Interaction of 2,3,4,6-Tetraacetyl- α -D-Glucopyranosylbromide with Mercaptans.

Orig Pub: Collect. czechosl. chem. commun., 1958, 23, No 2, 336-338.

Abstract: See RZhKhim, 1958, 39741.

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Country : CZECHOSLOVAKIA
Category : Organic Chemistry. Synthetic Organic Chemistry G
APPROVED FOR RELEASE 08/25/2000 CIA-RDP86-00513R001652820011-5"

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15430

Author : Stanek, J.
Institut. : —

Title : On the Formation of 2-Alkylmercapto Derivatives of 4-Methyl-6-Oxypyrimidine

Orig Pub. : Collect. czechosl. chem. commun., 1958, 23, No 6, 1154-1156

Abstract : No abstract.
See Ref Zhur-Khim, 1959, 1304.

Card: 1/1

CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their
Synthetic Analogues

G-3

Abs Jour: Ref Zhur-Khim, No 24, 1958, 81741.

reaction with aniline (IV) proceeds slowly and with p-nitroaniline does not usually take place. The reaction of 2,3,4,6-tetraacetyl- α -D-glucopyranose with IV takes place very easily, with the formation of pure N-phenyl-2,3,4,6-tetraacetyl- α -D-glucozylamine. The reaction of II with o- and p-III gives pure α -anomer whereas the same reaction with IV produced a mixture of both anomers of the pure α -anomer is formed in a low yield (after long boiling). The 2,3,4,6-tetraacetyl- β -D-pyranosyl mercaptan (V) reacts in the same way as II but somewhat slower. To obtain the acylated substitutes, three methods are used: A) 0.01 moles of I and 0.02 moles of aromatic

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CZECHOSLOVAKIA/Organic Chemistry Natural Products and Their
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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81741.

in a 42% yield, m.p. 97°C. $[\alpha]_D^{25} -56.6^\circ$ (chloroform), with method B, in a 56% yield, $[\alpha]_D^{25} -57.1^\circ$, by method B some formation of the α -anomer is observed. The α -anomer is obtained with method B, yield 39%, m.p. 148°C. $[\alpha]_D^{25} +172.8^\circ$. Further is given the product, the method of preparation, the yield in %, m.p. in °C., $[\alpha]_D^{25}$ (in chloroform) : N-phenyl tetraacetyl- β -D-galactopyranosylamine, Λ , 43, 119, -32.3°; N-o-tolyltetraacetyl- β -D-glucopyranosylamine, Λ , 36, 109, -62.6°; CB, 42, 109, -63.8°; N-p-tolyl tetraacetyl- β -D-glucopyranosylamine, Λ , 52, 146, -36.3°; B, 58, 147, -36.8°; C, 72, 148, -34.4°; N-o-tolyl tetraacetyl- β -D-

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

CuO, are cyclized by the action of strong acids in CH_3COOH medium to form unsaturated 2,5-disubstituted derivatives of furan of the type $\text{OCR}-\text{CHCH}=\text{CCH}=\text{CHR}'$. The reaction in all probability proceeds by a mechanism similar to that of the opening of the furan ring according to Marckwald. Preparation: 60 gms of butyl chloride on treatment with diazomethane in ether solution at -20° give 1-diazo-pentanone-2; the ether is distilled off and the product is decomposed by refluxing for 15 min with 6 gms CuO in 2 liters of C_6H_6 , giving 5-decene-4,7-dione (I), yield 28.5%, mp 55-56.5° (from CH_3OH). Using a similar procedure, dihydrocinnamyl chloride gives a 27.3% yield of 1,8-diphenyl-4-octene-3,6-dione (II), mp 85-85.5° (from alc). 2 gms of the methyl

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ation of the solvent gives 1.85 gm of 5-
 (5 -carbomethoxyethyl)-2-(3 -carbomethoxyvinyl)-
 furan, mp 59-60° (from CH₃OH at -30°); refluxing
 for 30 min with 10% soda solution gives the free
 acid (III), mp 178-179°. On standing in a 0.065 N HCl solution in 99.8%
 CH₃COOH (90 min 25°), a 76% yield of 5-phenetyl-2-
 styryl furan is obtained, mp 51-51.5°. Using a
 similar procedure, the diethyl ester of eicosene-10-
 dione-9,12-dicarboxylic-1,20 acid is made to give
 65% yields of 5-(8-carbethoxy-octyl)-2-(8-carbe-
 thoxy-1-octenyl)-furan; the product is purified by

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Trans. Rep. Zhur.-Khim., No. 2, 1959, 4619.

chromatography on Al_2O_3 (elution with benzene); the free acid (M_p 101°; from aqueous alcohol) on oxidation with KMnO_4 gives suberic acid and sebacic acid. I yields 2-propenyl-5-propylfuran, bp 47-50°/0.4 mm, n^{20}_D 1.5008; the methyl ester of 4-heptene-3,6-dione-1-carboxylic acid gives 5-methyl-2-(β -carbomethoxyvinyl)-furan (IV), yield 74%, M_p 155-156°/0.1 mm; the free acid (V) has an M_p of

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
 Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

report were obtained by the decomposition of the diazoketones in the presence of the corresponding esters of diazoketocarboxylic acids. In addition to the symmetric product the reaction always yields two symmetric compounds. When 0.05 mol of the methylester of ω -diazolevulinic acid (VII) and 0.05 mol of diazoacetone (VIII) are refluxed for 15 min with 3 gms CuO in 1 liter C_6H_6 , 22% yields of the methyl ester of 4-heptene-3,6-dione-1-carboxylic acid are obtained, bp 119-120°/2mm; crystallization gives the dimethyl ester of 4-octene-3,6-dione-1,8-dicarboxylic acid, yield 19%, mp 120-121° (from CH_3OH), and distillation gives diacetylene (IX), yield 36%, bp 80-85°/14mm, mp 75° (from ether). When a three-

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 Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

fold excess of VIII is used, the yield [sic] is increased to 33%. Using a similar procedure VII and 1-diazo-2-butene give the methyl ester of 4-octene-3,6-dione-1-carboxylic acid, yield 15.5%,

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5" bp 125-130°/2mm, mp 47-48° (from petroleum ether) (the product was separated by distillation after the removal of 1,2-dipropionyl ethylene, yield 53%, bp 80-85°/3mm, mp 52-53° (from petroleum ether)); VIII and the methyl ester of ω -diazoacetylvaleric acid after distillation of IX (47%) and crystallization of the methyl ester of dodecene-6,5,8-dione-1,12-dicarboxylic acid (yield 14%, mp 93-94° (from CH_3OH)) give the methyl ester of 6-nonene-5,8-dione-1-carboxylic acid, yield 21%, bp 120-140°/2 mm, mp 53-54° (from petroleum ether).

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

benzoic acid (X), yield 98%, mp 70-71°; the ethyl ester of p-diazoacetylbenzoic acid (XI) yield 99%, mp 65-66°. The following compounds were prepared by refluxing X or XI for 15 min with CuO in C₆H₆: 33.5% 1,2-bis-(n-carbethoxybenzoyl)-ethylene, mp 131-132° (from ethyl acetate) (XII); 36.5% 1,2-bis-(p-carbethoxybenzoyl)-ethylene (XIII), mp 194-195° (from benzene). 1,2-bis-(o-carbethoxy-benzoyl)-ethylene, mp 160° (decomp; from alc-benzene) was obtained by a similar procedure from the acid ethyl ester of phthalic acid without the separation of intermediate products. The hydrogenation of XIII to XII over Pt (from PtO₂) at 22° and at normal pressure yields 1,2-bis-(p-carbethoxybenzoyl)-ethane, mp 157-158° (from alc); similarly 1,4-bis-

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CZECHOSLOVAKIA/Organic Chemistry, Natural Products and Their
APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5
Synthetic Analogues

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81743.

Author : Cerny M., Vrkoc J., Stanek J.

Inst :

Title : The Problem of Preparing Acylated Derivatives of
Glycopyranosyl Mercaptans

Orig Pub: Chem. listy, 1958, 52, No 2, 311-315.

Abstract: When 333 grams of 2,3,4,6-tetraacetyl- α -D-glycopyranosyl bromide was heated for 15 minutes to boiling point with 60 grams of thiourea in 300 ml acetone and after cooling with ice one obtains 300 grams of crude 2,3,4,6-tetrancetyl- α -D-glucopyranosyl-isothiuronium bromide (I), m.p. 178°C., applied for further investigation. The pure I, m.p. 189°C. (from

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CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81743.

solution of potassium carbonate and allowing it to stand for 30 minutes, yield 82%. III is dimorphic, its modification with a m.p. of 115°C. (from ether or methanol) is obtained by allowing an aqueous solution of I to stand for 30 minutes with a saturated solution of NaHSO₃ or by boiling it for 5 minutes, yield 75 or 85%. The oxidation of both forms of III with 10% H₂O₂ (one hour at 20°C) in methanol and standing in the refrigerator resulted in the formation of 2,3,4,6,2',3',4',6'-octaacetyl- β -D-diglucopyranosyl disulfide (IV), yield 90%, m.p. 143-144°C. (from CH₂OH), $[\eta]$ D -156.5 \pm 0.7 (c 2; CHCl₃CHCl₂), $[\eta]$ D -160.3 \pm 1.7 (c 0.6; chloroform). IV was also obtained by heating an aqueous suspension of II to boil-

Card : 3/6

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5" G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81743.

ing, then dissolving the resulting syrup in methanol and concentrating by boiling, yield 25%. After both forms of III were allowed to stand for 12 hours with acetic anhydride in pyridine, 1-S-acetyl-2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl mercaptan (V) was formed, yield 70%, m.p. 121°C. (from methanol), $[\eta]$ D + 9.0 \pm 0.5 (c 2.1; CHCl₃CHCl₂). In the same way as for I, from 2,3,4-triacetyl- β -D-arabinopyranosyl bromide and thiourea 2,3,4-triacetyl- β -D-arabinopyranosyl isothiouronium bromide (VI) was synthesized, m.p. 172°C. (alcohol), $[\eta]$ D - 26.5 \pm 0.8 (c 2.1; alcohol). The boiling of an aqueous solution of NaHSO₃ with VI for 5 minutes and drying of the syrup over sulfuric acid converted it to 2,3,4-triazetyl- β -D-arabinopyranosyl

Card : 4/6

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim, No 24, 1958, 81580.

Author : Hermanek S., Stanek J.

Inst :

Title : A New Method for Obtaining Homoisovaniline.

Orig Pub: Chem. listy, 1958, 52, No 2, 355-56

Abstract: Homoisovaniline (II) was synthesized by the ozonolysis of $4-C_6H_5CH_2O-3-CH_2OC_6H_5CH_2CH_2=CH_2$ (I) followed by the hydrogenation of the ozonide formed, and the simultaneous hydrolysis of the $C_6H_5CH_2O$ group. In the same way homoveratrone aldehyde (III) was obtained from the methyl ester of eugenole. The solution of I (15 grams) in ethylacetate (200 ml) was purged with O_2 containing 3% of O_3 (for 6 hours with cooling), afterwards it was hydrogenated for 3 hours on 5%

Card : 1/3

17

STANEK, JAROSLAV

7
Formation of 2-alkylmercapto derivatives of 4-methyl-6-hydroxypyrimidine. Jaroslav Stánek. (Karlova Univ., Prague). Česk. Listy 57, 357-8 (1955).—Suspending 27.8 g. $\text{HN:C}(\text{NH}_2)\text{SMe} \cdot \text{H}_2\text{SO}_4$ in H_2O , adding 13 g. $\text{AcCH}_2\text{CO}_2\text{Et}$ and 10 g. anhyd. Na_2CO_3 , keeping the mixt. 4 days with occasional shaking, and recrystg. the insol. condensation product from EtOH gave 29.7% 2-methylthio-4-methyl-6-hydroxypyrimidine, m. 218-22°, identified by desulfurization by boiling with Raney Ni in EtOH yielding 4-methyl-6-hydroxypyrimidine (I), m. 148-50°. Similarly was obtained 83.4% 2-ethylthio-4-methyl-6-hydroxypyrimidine, m. 145°. Condensation of methylenebis(isothiuronium bromide with $\text{AcCH}_2\text{CO}_2\text{Et}$ failed but the 1,2-ethylene- and 1,3-propylene derivs. gave by similar procedure, resp., 34.0% 1,3-bis(4-methyl-6-hydroxy-2-pyrimidylthio)ethane (III), m. 210-20°, and 12% 1,3-bis(4-methyl-6-hydroxy-3-pyrimidylthio)propane, m. 225° (decompn.). Desulfurization of III as above yielded likewise I. Attempts to apply the described method to sugars failed.

L. L. Urbausk

A
2 May

J. S.

Country : CZECHOSLOVAKIA G
 Category : Organic Chemistry. Natural Substances and
 Abs. Jour : Their Synthetic Analogs
 Ref Zhur - Khim., No 5, 1959, No. 15491
 Author : Stanek, J.; Tajmr, L.
 Institut. :
 Title : On Some Derivatives of Quinovose
 Orig. Pub. : Chem. listy, 1958, 52, No 3, 551-553
 Abstract : A solution of 20 g. of D-glucose (I) in 300 ml. of pyridine with 20.2 g. of tosyl chloride is left standing for 24 hours at about 20°, 200 ml. of pyridine are distilled off, 80 ml. of $(CH_3CO)_2O$ are added and after further standing (48 hours at 0°), 1,2,3,4-tetraacetyl-6- β -tosyl- β -D-glucopyranose (II) is obtained, decomposition point 185-190° (from alcohol), $[\alpha]D +24^\circ$ (c 0.49; chloroform); the yield of pure substance is 14 g. From the mother liquors

Card: 1/7

Country :
 Category :
 APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5"
 Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15491
 Author :
 Institut. :
 Title :
 Orig. Pub. :
 Abstract cont'd. : 5 g. of 1,2,3,4,6-pentaacetyl- β -D-glucopyranose are obtained. By boiling 1,2,3,4-tetraacetyl-6-desoxy- β -D-glucopyranosil-6-isothiocuronic acid iodide (Hardegger, E., Montavon, R.M., Helv. chim. acta, 1946, 29, 1199) with the same weighed quantity of $NaHSO_3$ in a ten-fold quantity of water in the course of three minutes, 1,2,3,4-tetraacetyl-6-desoxy-6-mercaptop- β -D-glucopyranose (III) is formed, with yield of 68%, m.p. 108°, $[\alpha]D +9^\circ$ (c 3.6; chloroform)

Card: 2/7

Category	:
Obs. Jour	: Ref Zhur - Khim., No 5, 1959,
	No. 15491
Author	:
Institut.	:
Title	:
Orig. Pub.	:
Abstract cont'd.	: (c 0.6; chloroform). Analogously, V is formed from III, with yield of 87%. 62 g. of tosyl chloride are added to 20 g. of I in 300 ml. of pyridine, and after the usual treatment, 60 ml. of $(CH_3CO)_2O$ is acetylated. While standing in a refrigerator, II is separated out. After distillation of the mother liquors, 11 g. of 1,3,4-triacetyl-2,6,-di-p-tosyl- α ,D-glucopyranose is obtained, m.p. 168° (from CH_3OH), $[\alpha]D +97^\circ$ (c 0.45; chloroform), which by in-
Card:	4/7

G - 76

STANEK, J.; CERNY, M.; VRKOC, J.

"Preparation of acylated glycopyranosyl mercaptans." In German. p. 64.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.,
Vol. 24, No. 1, Jan 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59
Unclassified

country	: CZECHOSLOVAKIA
CATEGORY	: Organic Chemistry. Synthetic Organic Chemistry
REF. JOUR.	: RZKhim., No. 1 1960, No.1138
AUTHOR	: Ernest, I.; Stymek, J.
INST.	: -
TITLE	: Decomposition of Diazoacetones with Cupric Oxide: V. New Reaction of Aliphatic Unsaturated γ-Diketones
ORIG. PUB.	: Collect. Czechosl. Chem. Commun., 1959, 24, No 2, 530-535
ABSTRACT	: No abstract See RZKhim., No 2, 1959, No 1619.

CARD: 1/1

a-6

COUNTRY : CZECHOSLOVAKIA
CATEGORY : Organic Chemistry. Synthetic Organic Chemistry
ABSTRACT JOUR. : RZKhim., No. 23 1959, No. 82249
AUTHOR : Hermanek, S.; Stanek, J.
INST. :
TITLE : A New Method of Synthesis of Homoisoquinillin
ORIG. PUB. : Collect. Czechosl. Chem. Commun., 1959, 24,
No 4, 1366-1368
ABSTRACT : No abstract.
See RZKhim., 1958, No 24, No 81580

CARD: 1/1

ERNEST, I.; STANEK, J.

Decomposition of diazoketone with copper (II) oxide. Part 9: Kinetics
of cyclization of unsaturated γ -diketone. Coll Cz Chem 26 no.4:
1039-1047 Ap '61.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie,
Prag (for Stanek) 2. Forschungsinstitut fur Pharmazie und Biochemie,
Prag (for Ernest)

(Diazocompounds) (Copper oxides) (Ketones)

STRNEK, J.

STANEK, J.

CZECHOSLOVAKIA

MYSKA, J; STANEK, J; ETTEL, V; MARCHALINOVA, M.

Institute of Organic Technology of the Technical Higher
School of Chemistry (Institut für organische Technologie,
Technische Hochschule für Chemie), Prague and Spolana,
Neratovice

Prague, Collection of Czechoslovak Chemical Communications,
No 11, 1963, pp 3154-3158

"On Some New Derivatives of Trichloracrylic Acid."

(4)

STANEK, Jaroslav; SMEKAL, Emil

On the possibility of distinguishing chemical compounds by
semiconducting sensors. Scr. med. fac. med. Brunensis 36
no. 5:215-228 '63.

1. Katedra lekarske fysiky lekarske fakulty university J.E.
Purkyne v Brne. Vedouci: MUDr. Jaroslav Stanek CSc.
(CHEMISTRY, ANALYTICAL) (ALCOHOLS)

STANEK, J.

"Organic chemistry. Experiments on a semimicro scale" by
G.H. Coleman, S. Wawzonek, R.E. Buckles. Reviewed by J. Stanek.
Chem listy 57 no.6:662-663 Je '63.

STANEK, J.

"Structural carbohydrate chemistry" by E.G.V. Percival,
E. Percival. Reviewed by J. Stanek. Chem listy 57 no.11:
1201-1203 N '63.

STANEK, J.; SINDEROVA, M.; CERNY, M.

Derivatives of D-thioxylopyranose and of some reducing 1-deoxy-
1-thiosaccharides. Coll Cz Chem 30 no.1:297-303 Ja '65.

1. Department of Organic Chemistry of Charles University,
Prague. Submitted April 30, 1964.

STANAL, Prague, Inc.

The 11-phase aggregate of 260 mva transformers of the AEG electric power plant for 380 kv network in the German Federal Republic. Etching No. 53 no. 9:504-106 3 '64

Faculty of Electrical Engineering, Czechoslovak Academy of Sciences.

STANEK, J.

Nomenclatural rules of organic chemistry. Chem listy 59 no.3:265-
327 Mr '65.

SEKUTY, J.

Problem in the production of light bottles.

p. 342 (Sklar A Keramik. Vol. 7, no. 11, Nov. 1957. Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

STANEK, J.

"Trends of technical development in the glass industry." (To be contd.)
P. 99.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu). Praha, Czechoslovakia,
Vol. 9, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Unclu.

COUNTRY : Czechoslovakia H-12

CATEGORY :

ABS. JOUR. : RZKhim, No. 5 1960, No. 18757

AUTHOR : Stanek, J.

TITLE : Not Given

FILE : New Technological Trends in the Glass Industry

ORIG. PUB. : Sklar a Keramik, 9, No 5, 151-154 (1959)

ABSTRACT : A number of the properties of glasses are listed: electric conductivity and its relationship to chemical composition and viscosity of the glass, dependence of the electric resistance on the temperature of the material, and a calculation of the energy required for the electric melting of the glass. The technology of electric melting in small units and in so-called 'deep' electric furnaces is described. In furnaces of recent design the electrodes are placed in such a way that the lines of

STAN. 1/2

country	:	Czechoslovakia	n-12
category	:		
date, jccr.	:	RZhime, No. 5 1960, No.	16757
au other	:		
inst.	:		
title	:		
orig. pub.	:		
abstract	:	force pass uniformly and simultaneously through the entire cross section of the glass. Large-area electrodes are used with a resulting decrease in the current density at the contact with the refractory and an increase in the service life of the latter; this arrangement simultaneously eliminates the formation of gas bubbles in the glass mass. The construction of a furnace of the above design requires about 9 times less refractory material than that of furnaces of standard design. The pro-	

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STANEK, Jaroslav; GOTZ, Jiri

Examination of the microstructure of thermally refined glass
surface by means of electron microscope. Silikaty 6 no.3:291-
295 '62.

1. Vysoka skola strojni a textilni, Liberec; Vyzkumny ustav
uzitkoveho skla a bizuterie, Jablonec nad Nisou.

STANEK, J.

"Trends of technical development in the glass industry." P. 164.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu). Praha, Czechoslovakia,
Vol. 9, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Unclu.

GOTZ, Jiri; STANEK, Jaroslav

Effect of mechanical treatment on the microheterogenous structure
of glass surfaces. Silikaty 7 no.1:42-45 '63.

1. Vyzkumny ustav uzitkového skla a bizuterie, Jablonec nad Nisou
(for Gotz). 2. Vysoka skola strojni a textilni, Liberec (for Stanek).

STANEK, Jaroslav

"Glass technology." Reviewed by Jaroslav Staneck. Sklar a keramik 13
no.2:55 F '63.

JOSZT, Kazimierz; KRYZANOWSKI, Wojciech; STANEK, Jerzy

Testing oxidation of M70 and M63 brasses. Mechanika Gliwice
no.16:97-110 '62.

1. Katedra Metaloznawstwa, Politechnika, i Instytut Metali
Niezetalaznych, Gliwice.

STANĚK, František

621.314.2

4908. The 220/110 kV transformers of the CKD
Stalingrad National Corporation. V. Vochob and
J. STANĚK. Elektrotech. Obzor, 42, No. 9, 504-10

1957-1958.

Detailed description of the design, construction and

testing of the standard 100 MVA 220 \pm 9 \times 3.3/110/
10.4 kV transformer of the CKD works. This
transformer is designed as three 1-ph. units with one
unit spare and the voltage regulation is being done
by a separate regulating transformer connected to the
neutral end of the 220 kV winding. H. NOREL

STANEK, J. (Jindrich)

631.317.7

683. CONSIDERATION OF SOME PROBLEMS IN ELECTRICAL
MEASUREMENTS. J. Stanek.

Nachrichtentechnik, Vol. 7, No. 9, 423-32 (Sept., 1957). In German.

The measuring techniques and apparatus described include: photoelectric amplifiers using the self-balancing electronic method for measurement of direct currents and voltages, mechanical forces and torques; a polarograph using a p.-e. amplifier; a mains-energized portable radiation dose-meter using a quadrant electrometer across a 10^3 - 10^6 M Ω resistor; a pocket dose-meter using an electrometer and based on the capacitor loss-of-charge method; a thermal convertor for measurement of r.f. currents which uses a hot diaphragm and thermocouples instead of the usual hot wire and thermocouple, the resulting reduction of skin effects extending the frequency range.

C. F. Pizzey

STANEK, JINDRICH

✓ 7440* (Czech.) The Technology of Electro-Spark Machining.
Technologie elektrojiskrového obrábění. Jindřich Stanek.

Elektrotechnik, v. 12, Jan. 1957, p. 2-7.

Method for machining hard materials based on the erosion of
the metal by spark discharges between the tool electrode and
the part being machined.

18
1
P03
OK

STANEK, J.

"Electric spark machining of metals."

p. 33 (Czechoslovak Heavy Industry, no. 5, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

STANEK, J.

TECHNOLOGY

ELEKTROTECHNICKY. OBZOR.

STANEK, J. Resolution of magnetic fluxes in transformer regulating sets for locomotives. p. 616.

Vol. 47, no. 12, Dec. 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 5
May 1959, Unclass.

STANEK, Jindrich

"Electric spark machining" by Andras Roth, Ferenc Kaldos
and Istvan Kovacs. Reviewed by Jindrich Stanek. Stroj
vyr 10 no.10:535 0 '62.

STANEK, Jindrich, inz.

"Ultrasound machining" by [doc., dr.] ~~Jerzy~~ Dmochowski. Reviewed by
Jindrich Stanek. Stroj vyr 10 no.12:635 '62.

STANEK, Jindrich, inz. CSc.

Problems of the mechanization and automation of assembling.
Stroj vyr 11 no.11:542-546 N°63.

1. Riaditel, Vyvojovy ustav pre mechanizaci a automatiza-
ciu, Nove Mesto nad Vahom.

ACC NR: AP6035580

SOURCE CODE: CZ/0047/66/000/010/0835/0838

AUTHOR: Stanek, Jindrich (Candidate of sciences; Engineer)

ORG: none

TITLE: Academic community near Novosibirsk

SOURCE: Technicka praca, no. 10, 1966, 835-838

TOPIC TAGS: academic institution, academic personnel, scientific program, scientific personnel / Akadem-Gorodok

ABSTRACT: The Siberian Branch of the Academy of Sciences, USSR has its scientific and administrative center in the Academic community (Akadem-Gorodok) near Novosibirsk, located on the shore of the "Ob' Sea," a water reservoir of about 6,000 km behind the dam. In this nine-year old community of 35,000 persons, there are 16 institutes of the Academy with more than 1200 scientific workers, among which are 10 Academicians, 30 Corresponding Members, 100 Doctors of Sciences, and 1100 Candidates of Sciences. The chairman of the Branch, since its foundation in 1957, is Academician M. A. Lavrent'yev. The following objectives are pursued by the Branch with a tendency to combine science with experience: 1) To establish a large collective of scientific workers in Siberia to solve significant problems encountered in the development of Siberian industry; 2) To educate scientific personnel by practical training; 3) To promote the development of the national economy in Siberia and the Far East. It is

Card 1/2

ACC NR: AP6035580

planned to have here in 1970, twelve large design bureaus and institutes for applied research, experimental factories for further development of basic-research discoveries, a polytechnic institute, and trade schools. Some working models (of a new particle accelerator, a hydrodynamic device for super-high pressure impulses) produced in the community were shown to the author. The methods of selecting future scientists from schoolboys and their education, which starts in high school and is continued at the university which has 3000 students and 500 candidates, are described, as well as the organization and operation of the experimental institutes. Novosibirsk itself is a city of more than one million, has 14 schools of higher education, and more than 50 scientific research institutes.

SUB CODE:05 / SUBM DATE: none

Card 2/2

TIRI Stärke

7

4. May
2

Distr: 4E2c(j)/4E3d

Estimation of pentaerythritol tetranitrate in the presence
of cyclotrimethylene trinitroamine. ⁷ J. Staněk and Jan
Vacek. *Chem. prumysl* 8(33), 361-47 (1958).—Pentaerythri-
tol tetranitrate (I) and cyclotrimethylene trinitroamine (II)
can be detd. simultaneously by the following method: Dis-
solve a sample contg. not more than 0.22 g. of I and 0.12 g.
of II in 30 ml. of glacial AcOH and add 25 ml. of 25% HCl.
Remove air by passing a stream of CO_2 through the soln.
Add 50 ml. of 0.7N FeCl_3 and reflux for 20 min. Cool,
add 10 ml. of 10% NH_4CNS , and titrate with 0.2N TiCl_3
until the red color disappears. Then add 20 ml. of N
 TiCl_3 and 25 ml. of Na citrate and reflux for 30 min. Cool
and titrate with 25 ml. of 0.25N $\text{FeNH}_4(\text{SO}_4)_2$ until the red
color persists for 1 min. Blanks have to be detd. and
their values subtracted. The amt. of I is equiv. to the cor.
vol. of TiCl_3 , that of II to the cor. vol. of $\text{FeNH}_4(\text{SO}_4)_2$.
Max Hellmann

J. J.

STANEK, J/; DRAHONOVSKY, J.; VACEK, Z.

On the mechanism of the biological action of some nitrophenols. *Folia
microbiol.* 8 no.1:48-55 '63.
(NITROPHENOLS) (NEOROSPORA) (HYDROGEN ION CONCENTRATION)

VACEK, Z.; STANEK, J.

Chromatography of chloronitrophenols. Coll Cz Chem 28 no.1:264-266
Ja '63.

1. Spolana, Neratovice.

MANDIK, Lumír; STÁNEK, Jiří

Selection of solvents for coating systems according to the solubility parameter. Chem prum 15 no.4:223-226 Ap '65.

I. Research Institute of Synthetic Resins and Lacquers, P. dubice.

KASIK, Ivan, inz.; STORKAN, Zdenek, inz.; STANEK, Jiri

Electroslag remelting of steel and alloys in the Soviet
Union. Hut listy 19 no.5:311-318 My '64

1. Research Institute of Iron Metallurgy, Prague (for Kasik
and Stanek). 2. Spojene ocelarny, Kladno (for Storkan).

STANEK, JOSEF

Metacaloyal

Beryl Pegmatite of Schreibengraben near Martínov, Moravia. J. Pokorný and J. Stanek (Masaryk Univ., Brno, Czech.). *Pedee Moravského a Slezského Přírodního 23*, 247-58 (1951) (English summary).—The pegmatite, intrusive into amphibolitic gneiss, is complex. The earliest phase contained K feldspars, quartz, tourmaline, mica, beryl, and columbite; a later albite-rich phase contains quartz, mica, garnet, spinel, and beryl. The last minerals to form in cavities were tourmaline, apatite, albite, mica, eucalcite, bertrandite, and quartz. The pegmatite is too lean to be worked commercially. Michael Fleischer

STANEK, J.

CZECH

Cyrillovite, a new phosphate mineral. M. Novotný and
J. Staněk (Masaryk Univ., Brno, Czech.). *Práce mineralogického katedry* 1, 129-33 (1953) (English summary).
The mineral occurs as rare crusts with triplite, triplodite, and duftelite in nests in pegmatite at Cyrilov, West Moravia. It occurs as brown tabular tetragonal crystals with
 $a/c = 1:0.9344$ (goniometric). Rotation photographs
confirm the tetragonal symmetry, but lead to a different
orientation with $a = 7.32$, $c = 19.4$ Å. Analysis gave P_2O_5 33.96, Fe_2O_3 59.59, H_2O 15.14, sum 99.09%; The mineral
is uniaxial neg., nD 1.505, nE 1.777. Sp. gr. is 3.085.
X-ray powder data are given. Michael Fleischer

STANEK 5.

Occurrence of molybdenite in the plutonic rocks near
Zulová [Czechoslovakia]. J. Staněk and J. Kalášek.
Učstník Ústřed. Ústavu Geol. 28, 271-7 (1953).—Molybde-
nite is present only in small amounts, in veins of pegmatite.

Other accessory minerals found included fergusonite, phena- GP
kite, and monazite. Rudolph Pick

(2)

STANEK, J.

CZECH

STANEK, J.

Mineralogy of some West Moravian pegmatites. J. Stanek (Univ. Brno, Czech.). *Casopis Moravského Muzea* 1953, 38, 112-29 (1953) (English summary).—S. identified from pegmatites near Dolní Bory scorodite, foellingite, pharmacosiderite (α 1.697, 1.704), symplectite with α 1.633, β 1.646, γ 1.681, augelite with α 1.573, γ 1.589, sp. gr. 2.087, and metamict zircon high in P, Y, and Ce content. Amblygonite with α (Na) \approx 1.590, γ 1.610, sp. gr. 3.11, and crystals of columbite were found at Puklice. Beryl of 2 types (α 1.575, 1.592, ϵ 1.670, 1.678), topaz with α 1.618, β 1.621, bertrandite with α 1.689, γ 1.610, and petalite with α (Na) \approx 1.606, β 1.612, γ 1.518, sp. gr. 2.393, were found near Jeclov. Michael Fleischer

STANĚK, JOSEF

C Z E C H

*Spodumene and bavenite from Jeclov. Josef Staněk,
Casopis moravského Muzea, Vědy přírody 39, 87-7741954.
(English summary).—Spodumene occurs as an alteration
product of petalite, which also alters further to a montmoril-
lonitic clay. Spodumene had $n_s \alpha 1.658$, $\gamma 1.074$. Bavenite
occurs in cavities assoed. with adularia. It had $n_s \alpha 1.587$,
 $\beta 1.589$, $\gamma 1.594$.*

Michael Fleischer

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STANEK, JOSEF

3

✓ The phosphate paragenesis from Cyrilov, West Moravia.
Josef Stanek. *Casopis Moravského Muzea, Vědy Přírody*
40, 50-60 (1955) (English summary).—Primary minerals in-
clude graftonite with $ns\alpha$ 1.718, β 1.723, γ 1.745; apatite
with $ns\alpha$ 1.635, ϵ 1.633; manganese apatite with $ns\alpha$
1.652, ϵ 1.618; and tripleite with $ns\alpha$ 1.695, γ 1.705. Ox-
idation products include cyrilovite (cf. *C.A.* 49, 7454*d*),
heterosite, strengite with $ns\alpha$ 1.730, β 1.733, γ 1.733, sp.
gr. 2.830; metastrengeite with $ns\alpha$ 1.692, γ 1.737; and
fairfieldite (?) with $ns\alpha$ 1.637, γ 1.656. Michael Fleischer

CZECHOSLOVAKIA / Cosmochemistry, Geochemistry, Hydrochemistry. D

Abs Jour : Ref Zhur - Khim., 1958, No 17, No 57056.

Author : Stanek, J.

Inst : Not given

Title : Bismuth and Bismutite from Pegmatites Near Marsikova in Northern Moravia.

Orig Pub : Casop. Moravskeho musea Brn, Vedy prirod, 1957, 42, 33-38.

Abstract : Block (quartzitic) and metasomatic (albite) pegmatites are characterized by the following association of minerals: apatite, babenite, hematite, beryl, bertrandite, biotite, bismutite, native bismuth, garnet, columbite, microcline, muscovite, topaz, tourmaline (schorlrite), zircon, spinel and euclase. The results of spectrum analyses (in %): native bismuth \geq 1Bi, N. 10^{-2} Ca and Si, \leq 0.01, Ag, Al, Cr, Cu, Fe, Mg, Mn, Pb and Sb; bismutite \geq 1Bi, 0.01 Al,

Card 1/2

STANEK, J.

GEOGRAPHY & GEOLOGY

Periodicals: CASOPIS PRO MINERALOGII A GEOLOGII Vol. 3, no. 4, 1958

CECH, F.; STANEK, J. Anew lithium pegmatite from Nova Ves near
Cesky Krumlov. p. 407.

Monthly List of East European Accesions (EEAI) LC, Vol. 8, No. 5
May 1959, Unclass.

STANEK, Josef; MISKOVEKY, Josef

Cordierite rich in iron from the pegmatite deposit near Solni
Bory. Gas min. geol. 9 no. 2121-192 '64.

1. Faculty of Natural Sciences, J.R. Purkyne University, Brno;
Higher School of Technol., Brno.

STANEK, Karel; VAVERKA, Miroslav, inz.

Experience with the construction of the press shop in the
enterprise Zavody na výrobu kulickových ložisek. Poz stavby
ll no.1:24-26 '63.

1. Ingstav, Brno.

STAREK, L.; HYKEL, J.

Detonators, primers and electric detonators. p. 374. (STAVIVO, Vol. 35, No. 9, Sept 1957, Praha, Czechoslovakia)

CC: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

STANEK, Liboslav, inz.

Construction of thermal power stations using lignite. Energetika
Cz ll no.9:425-426 S '61.

STANEK, Liboslav, inz.

To reach the world standard in construction of condensing electric power plants and in distribution of electric power. Energetika 12 no.1:Suppl.:1-5 Ja '62.

1. Namestek ministra paliv a energetiky.

STANEK, L., inz.

Entering the second year of the third Five-Year Plan. Paliva
42 no.1:1-2 Ja '62.

1. Namestek ministra paliv a energetiky, Praha.

STANEK, Liboslav, inz.

Third International Mining Congress in Salzburg.
Uhli 5 no.11:386-387 N '63.

1. Clen mezinarodniho hornickeho komitetu, Praha.

STANEK, Liboslav, inz.

Science and technology, the most efficient productive forces.
Uhli 6 no. 2:41-43 F '64.

1. Clen kolegia ministra paliv.

STANEK, Liboslav, Ing.

Drilling and blasting methods and their importance for the development of the mining of minerals. Rudy 12 no.2: 41-42 F'64

1. Statni komise pro rozvoj a koordinaci vedy a techniky, Praha.

STANEK, Liboslav, inz.

Planning of the science and research in the mining and
deposit survey. Rudy 12 no. 3: 73-76 Mr '64.

1. State Commission for the Development and Coordination
of Science and Technology, Prague.

STANEK, Liboslav, inz.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652820011-5"
"Preparation for the second year of industrial high schools
of mining" by [inz.] Z. Masin, [inz.] A. Kostal.
Reviewed by Liboslav Stanek. Uhli 6 no. 4: 142 Ap '64.

"Preparation of mineral raw materials" by [inz.] Oskar
Dinter. Reviewed by Liboslav Stanek. Ibid.: 142.

STANEK, Liboslav, inz.

Rational use of domestic fuel and power resources. Tech
praca 16 no.11:852-854 N '64.

1. State Commission for the Development and Coordination
of Science and Technology, Prague.

STANEK, L., inz.

Remarks on the M.F. Kessler article "Main trends in coal use and research." Paliva 44 no.10:319-320 O '64.

1. State Commission for Development and Coordination of Science and Technology, Prague.

STANEK, I.

Development of longwall mining in the North-Bohemian Lignite Basin. p. 15.

UHLI. (Ministerstvo paliv)
Praha, Czechoslovakia
Vol. 1, no. 1, Jan. 1959.

Monthly list of East European Acessions (EEAI), LC, Vol. 8, no. 7
July 1959
Uncl.

STANEK, L.

Data on Soviet coal mines anf fuels. p. 209.

UHLI. (Ministerstvo paliv) Praha, Czechoslovakia. Vol. 1, no. 6, June 1959

Monthly list of East European Accessions (EEAI), Vol. 9, no. 1, Jan. 1960

Uncl.

STANEK, L.

Saving our forests and saving timber for mines. p. 329.

UHLE. (Ministerstvo paliv) Praha, Czechoslovakia,
Vol. 1, no. 10, Oct. 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2,
Feb. 1960.

Uncl.

STANEK, L.

Further rise in the productivity of brown coal mines of Czechoslovakia. p. 363

UHLI (Ministerstvo paliv) Praha, Czechoslovakia. Vol. 1, no. 11, Nov. 1959

Monthly list of East European Accessions (EEAI), Vol. 9, no. 1, Jan. 1960

Uncl.

STANEK, L.

Preparation of coal of the north Bohemian area for power purposes. p. 269.

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro
vyuziti paliv pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39,
no. 8, August 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

uncl.

STANEK, Liboslav, inz.

Determining basic indexes for evaluation of open mining
conditions. Uhli 5 no.5:167-170 My '63.

1. Statni komise pro rozvoj koodinace vedy a techniky,
Praha.

STANEK, L., inz.

Mechanization of low seam mining. Uhli 6 no. 8:287 Ag '64.

STANEK, M.

"Visibility and Flying", P. 328, (KRIDLA VLASTI, Vol. 4, No. 14,
July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955, Uncl.

STANEK, M.

Glider, clouds, and breathing apparatus. p.230.
KRIDLA VLASTE, Prague, No. 10, May 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

KLAZAR, J.; KOSEK, F.; CIMPL, J.; STANEK, M.

Color temperature method for determining the heating of
parts. Automatizace 7 no. 3:81 Mr '64.

STANEK, M., dr.; UJEVIC, I., inz.; NOVAKOVA, J., inz.; DOLEZALOVA, H.,
inz.

Effect of the Indian corn seed treatment by preparations containing tetramethylthiuram disulfide on the development of parasitic, saprophytic, and mycolytic microflora around the planted seed.
Rost výroba 10 no. 4:423-434 Ap '64.

1. Institute of Microbiology, Czechoslovak Academy of Sciences, Prague (for Stanek). 2. Central Research Institute of Plant Production, Ruzyně (for Ujevic). 3. Central Control and Testing Institute of Agriculture, Brno (for Novakova).

CZECHOSLOVAKIA/Electronics - Photocells and Semiconductor Device H.

Abs Jour : Ref Zhrur - Fizika, No 7, 1959, 15961

Author : Stanek, M., Medvezov, B.

Inst : Institute for Radio Technical Research, Czechoslovakia

Title : Meter for the Input Parameters of Transistors

Orig Pub : Slaboproudny obzor, 1958, 19, No 3, 128-132

Abstract : Description of a device that makes possible the input parameters of transistors (input impedances and input capacitance) by means of a compensation method with the aid of a rectangular signal. From the shape of the different signal on the oscillograph screen it is possible to determine which of the parameters of the electric equivalent circuit does not match the corresponding input parameter of the measured transistor.

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S/194/62/000/010/074/084
A055/A126

AUTHOR: Staněk, Milan

TITLE: Selective amplifier system

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962,
102, abstract 10-7-204b P (Czech. pat., cl. 21a⁴, 29/02, no. 98244,
January 15, 1961)

TEXT: The patented system (see Figure) contains a summation element S to whose input is applied the amplified signal and from whose output is picked up the voltage applied to the amplifier A that converts the phase of the amplified voltage. The output of the amplifier (which is also the output of the whole system) is connected to the input of the integrating circuit I and to one of the inputs of the comparison circuit P, whose second input is connected to the output of I. If the voltage at the output of P in absolute value deviates from the voltage at the input of I, the input impedance of P will vary and, as a result, the level of the signal at the input of this circuit will again become equal in absolute value, and be phase-shifted by 90° with respect to the voltage at the in-

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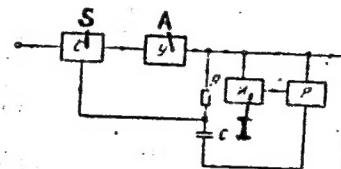
Selective amplifier system

S/194/62/000/010/074/084
A055/A126

put of I. These voltages are applied to the series circuit RC, and the equality $f = \frac{1}{2 \pi RC}$ is valid for them, f being the transmission frequency. The advantage of the system is that it permits the control of f within wide limits by means of the variation of one of the elements R, C, or the attenuation of the cascade N - P [Abstracter's note: N seems to be a misprint for $N = 1$]. A practical transistorized variant of the proposed device is described.

N.P.

[Abstracter's note: Complete translation]



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41252
S/194/62/000/007/146/160
D413/D308

g.131
AUTHOR: Staněk, Milan

TITLE: A DC-connected transistor amplifier

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1962, abstract 7-7-227 i. (Czech. pat., cl. 21a²
18/08, no. 96931, Oct. 15, 1960)

TEXT: The patent describes the circuit and selection of parameters for the amplifier. The circuit consists of one resistor, one capacitor and four transistors: two p-n-p and two n-p-n type. The output is push-pull (paraphase), and the current amplification factor is about 60 dB. The recommended form of load is a center-tapped output transformer, remarkable for its simplicity of construction, economy, small dimensions and high stability, which is achieved by using an auxiliary circuit containing one transistor whose base is fed with a fixed boost voltage equal to half the supply voltage. The possibility is discussed of varying the parameters of the circuit for practical applications. The basic advantages of the circuit are its high stability and the absence of an input transformer
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